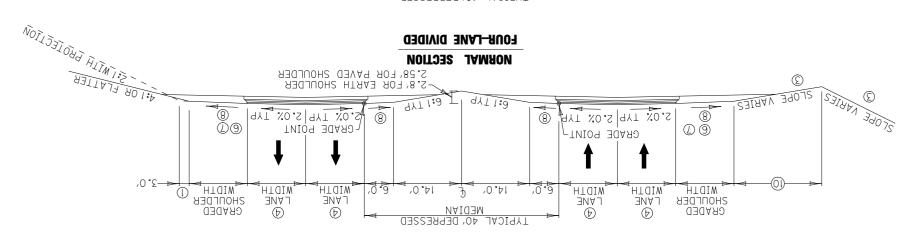
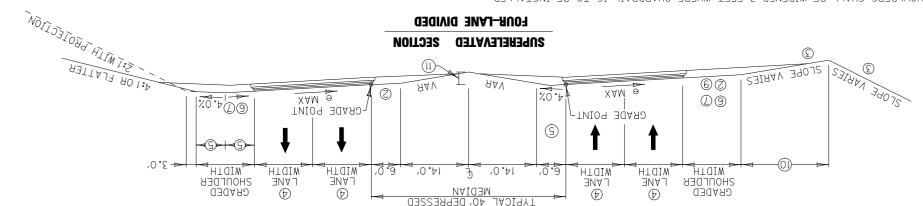
## TYPICAL SECTIONS





- ⊕ SHOULDERS SHALL BE WIDENED 3 FEET WHERE GUARDRAIL IS TO BE INSTALLED.
- S SUPERELEVATED SHOULDERS CONSTRUCT TO STANDARD SUPERELEVATION, EXCEPT NOT FLATTER THAN THE SLOPE INDICATED FOR NORMAL SECTION.
- ③ REFER TO AASHTO'S "ROADSIDE DESIGN GUIDE", CURRENT EDITION, FOR SPECIFIC SLOPE GUIDANCE.
- © IF THE SHOULDER WIDTH IS GREATER THAN 4 FEET, A PORTION OF THE OUTSIDE SHOULDER, THE SHOULDER ON THE HIGH SIDE, IS NOT SUPERELEVATED TO MENTILANE FACILITIES.

  AT THE MIDPOINT OF THE SHOULDER WIDTH, THIS REQUIREMENT MAY NOT HAVE APPLICATION TO INSIDE SHOULDERS OF MEDIAN SECTIONS AND MULTILANE FACILITIES.

  AT THE MIDPOINT OF THE SHOULDER WIDTH, THIS REQUIREMENT MAY NOT HAVE APPLICATION TO INSIDE SHOULDER OF CROSS-SLOPE IS NOT TO EXCEED 12.0 PERCENT.

  FOR THE "ROLL-OVER" BETWEEN SUPERELEVATED SHOULDER MIDTH WILL BE 2 FEET. FOR SHOULDER ON THE HIGH SIDE, IS NOT TO EXCEED 12.0 PERCENT.

  FOR THE "ROLL-OVER" BETWEEN SUPERELEVATED NONSUPERABLE SHOULDER, THE ALGEBRAIC DIFFERENCE IN RATE OF CROSS-SLOPE IS NOT TO EXCEED 12.0 PERCENT.
- © USABLE SHOULDER THE CLEAR AREA BETWEEN THE TRAVELED WAY AND ANY BARRIER OR BREAK POINT. TYPICALLY THIS DISTANCE IS THE SAME AS THE GRADED SHOULDER WIDTH.

🕘 REFER TO AASHTO'S "A POLICY ON GEOMETRIC DESIGN OF HIGHWAY AND STREETS", CURRENT EDITION, FOR SUGGESTED LANE WIDTHS OF THE VARIOUS ROADWAY

- () SHOULDER MAY BE PAVED TO WITHIN 1 FOOT OF THE SLOPE BREAK OR TO THE FACE OF THE BARRIER.
- ⊗ NORMAL SHOULDER CROSS SLOPE: EARTH = 8%, PAVED = 4%
- ③ AFTER THE NORMAL SHOULDER CROSS-SLOPE IS EXCEEDED, THE FULL WIDTH OF THE INSIDE SHOULDER IS ROTATED TO MATCH THE ROADWAY SUPERELEVATION.
- (O) WIDTH VARIES PER DRAINACE/"ROADSIDE DESIGN CUIDE" REQUIREMENTS.
- (II) VERTICAL DISTANCE BETWEEN CRADE POINT AND DITCH BOTTOM TO REMAIN CONSTANT IN SUPERELEVATED AND NORMAL SECTION. DRAWING NOT TO SCALE 3-26-2004